

New Works in the Field of Wire Communication (Cont.) 940

There are 20 references, of which 16 are Soviet (including 4 translations), 3 English, and 1 German. The references appear at the end of each article.

TABLE OF CONTENTS:

Preface 3

1. Koblents, Ya.G. and Yakovenko, D.A. Contactless Ferroresonance Devices 4

The article discusses experimental research and new developments in contactless automatic telephone switching devices and reviews the defects of earlier contactless ferroresonance devices. NIITS has developed new contactless ferroresonance devices in which attempts were made to eliminate these defects. The authors discuss the basic ferroresonance circuit and the effect of harmonic current and voltage components on voltage gradient. Some of the merits of these devices consist in their high-speed operation, small size, high voltage gradient, very long service life, and the fact that cheap semiproducts can be used in their fabrication, thus making them much cheaper than similar devices based on vacuum tubes or transistors. They have the disadvantage of requiring a high-frequency a-c power supply, they are dependent on supply-current frequency, and have a relatively high energy consumption.

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The devices presented can also be used in other branches of communications, automation and remote control.

2. Kaufel'dt, K.T., and Mel'nikov, N.I. Bidirectional Series-type Transistorized Triode Amplifier for Urban and Suburban Telephone Networks 22

The authors describe a bidirectional transistorized amplifier circuit (with no differentiation system), which acts as a negative impedance in correcting communication line attenuation. The amplifier circuit together with the transmission channel form a positive feed-back system. Tests of such equipment made over a period of ten months on the Moscow and Leningrad telephone networks have given favorable results and demonstrated the advantages of using transistors. However, a serious defect of this method of correcting line attenuation consists in the impossibility of matching a series-type amplifier with the line. The authors suggest the use of quadripole circuits consisting of negative impedance to make the matching possible.

3. Rabkin, L.I., and Novikova, Z.I. Design of Coils With Shell-type and Toroidal Cores 40

This article explains the calculation of optimal dimensions of coils with toroidal cores designed for operation in the audio-frequency range,

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and offers a method for calculating minimum volume (for a given Q-factor and inductance) of a coil with shell-type and toroidal cores. As the basis for their calculations, the authors assumed a constant ratio of the inner and outer coil diameters. The article discusses the following specific phases of the problem: the principle of calculating induction coil Q-factor; calculation by the H.A. Stone method of optimal ratio of dimensions of shell-type cores for audio-frequencies; calculation of the optimal ratio of dimensions of toroidal cores for audio frequencies; method of calculating the Q-factor of a coil, taking into account winding hysteresis eddy-current and initial losses. Examples of these calculations are given.

4. Gel'mont, Z.Ya. Narrow-band Quartz Filters

65

for the 1 to 10 MC Range
NIITS has developed narrow-band quartz filters for the 1 to 10 mc range for cable multiplexing. These filters are needed for separating the currents of the control frequencies which actuate the automatic level control, and the currents of the group converter carrier frequencies. Formulas are given for designing the filter elements, the adapters, and for calculating circuit parameters. This method of designing filters has been tested experimentally.

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5. Shtager, V.V. Nomogramic Method of Calculating the Operating Phase Constant

The author proposes a nomographic method for calculating with a minimum loss of time, the operating phase constant of complex networks which can be represented as relatively simple, stage-connected quadripolez. This method would supplement the M.G. Tsimbalistiy method. After explaining the calculation of the transmission phase constant, the author provides a formula for constructing the nomogram shown in Fig. 4. The author explains how this nomogram is used and gives an example of actual calculation of the operating phase constant for a network of stage-connected low-frequency filters.

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AVAILABLE: Library of Congress(TK6401.M6)

Card 5/5

JP/mas
12-10-58

Yakovenko, D. A.

34. Contactless Commutating Devices

"Contactless Commutating Devices Applied in a Transformer Ferro-resonance System," by Ya. G. Koblents and D. A. Yakovenko, Elektrosvyaz', No 3, Mar 57, pp 43-52

Trigger and counter systems built on the basis suggested by the author for a transformer ferroresonance circuit are described; these systems permit a better gradient coefficient and the use of a cheaper ferrite core. The method may find application in the control systems of automatic telephone exchanges and in other branches of technology. (U)

YAKOVENKO, D.A.

CIRCUITS

"Single-Cycle Switching Circuit with Intermediate LC Network Employing Ferrites with Rectangular Hysteresis Loop", by Ya. G. Koblents and D. A. Yakovenko. Elektrosvyaz', No 11, November 1957, pp 101-112.

Description of a contactless magnetic switching element developed by the authors, intended for automatic control equipment in automatic telephone stations and for long-distance apparatus, employing ferrites and suitable for miniaturization.

Card: 1/1

-2-

SABOV, V.A.; YAKOVENKO, D.A.

Vitamin value of food products of the Transcarpathian region.
Vop. pit. 19 no. 5:50-53 S-0 '60. (MIRA 14:2)

1. Iz Uzhgorodskogo nauchno-issledovatel'skogo instituta epidemiologii,
mikrobiologii i gigiyeny.
(TRANSCARPATHIA—VITAMINS)

YAKOVENKO, D.A.

Stability of a single-cycle magnetic shift register. Sbor. trui.
NIIT3 no.11:130-145 '63. (MIRA 17:9)

YAKOVENKO, D.K.; GUN, M.G.: POPOV, T.I.: PONKRATOV, N.P.

The ShPS-2 grinder for mosaic sills and steps. [Suggested by
D.K. Yakovenko and others] Rats. i izobr. predl. v stroi.
no.6:122-125 '58. (MIRA 11:10)
(Grinding machines)

YAKOVENKO, D.K.; GUN, M.G.; POPOV, T.I.; PONKRATOV, N.P.

The ShPS-1 grinder for mosaic panels [Suggested by D.K. Yakovenko
and others] Rats. i izobr. predl. v stroi. no.6:119-121 '58.
(Grinding machines) (MIRA 11:10)

YAKOVENKO, D.P.

1. CHIZHEVSKIY, M.G.; YAKOVENKO, D.P.
2. USSR (6CO)
4. Graphite
7. Care of perennial grasses in field crop rotation in the central part of the non-chernozem belt, M.G. Chizhevskiy, D.P. Yakovenko, Sov.agron. 11 no. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

YAKOVENKO D. P.

L

Country : USSR
CATEGORY : Meadow Cultivation.
ABSTRACT JOUR. : RZBiol., No. 4, 1959, No. 15517
AUTHOR : Yakovenko, D.P.
INST. : Yakut Scientific Res. Inst of Agriculture.
TITLE : Certain Data on Natural Grassland Renewal
after Working Various Meadow Types.
ORIG. PUB. : Tr. Yakutsk. n.-i. in-ta s.kh., 1958, vyp.1,
72-101
ABSTRACT : Data are presented on investigations of the
Meadow Cultivation Division of the Yakutsk
Affiliate of the Academy of Sciences USSR
in relation to the restoration of the stand
of grass after the improvement of the "alas"
meadows [cultivated meadows peculiar to
Yakutia which occur in thaw-sculptured ravines
and gullies] and the small valley grasslands
of the middle course of the Lena and Vilyuy
Rivers (in the Yakut ASSR). After the

CARD: 1/3

COUNTRY :
CATEGORY :

ABS. JOUR. : RZBiol., No. 4, 1959, No. 15517

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : meadows had been worked, the vegetation which had grown before reclamation was restored, although the composition of the grassland associations was altered due

CARD: 2/3

COUNTRY :	
CATEGORY :	
ABS. JOUR.	: RZhBiol., No. 1959, No. 15517
AUTHOR :	
INST.	:
TITLE :	
ORIG. PUB. :	
ABSTRACT :	<p>to the increased amount of rhizome grasses, if they had entered into the composition of the grasses. It is recommended that areas, which are occupied by combinations of sedge-reed grasses, be restored into meadows.</p> <p>-- I.S. Shaternikova</p>

Card:

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SERGEYeva, V.F.; YAKOVENKO, D.P.

Effect of salts on the coefficient of benzoic acid distribution
between water and benzene. Zhur. ob. khim. 34 no.8:2483-2486
(MIRA 17:9)
Ag '64.

1. Kazakhskiy gosudarstvenny universitet imeni S.M. Kirova.

VOLOZA, R.Z.; YAKOVENKO, E.I.

Clinical aspects of adenovirus diseases in children. Zdravookhr. Kazakh. 23 no.1:51-53 '63 (MIRA 17:2)

1. Iz kafedry infektsionnykh bolezney (zav. - kand. med. nauk L.M.Baranovskiy) Semipalatinskogo meditsinskogo instituta i 1-y Semipalatinskoy gorodskoy bol'nitsy.

YAKOVENKO, F. (gorod Primorsko-Akhtarsk, Krasnodarskogo kraya).

Increasing the resistance of the VG-236 gas rectifier. Radio
no.9:55 S '56. (MLRA 9:11)
(Electric current rectifiers)

YAKOVENKO, V. S. (s.Kiselevka Chernigovskoy obl.)

Apparatus for optical experiments. Fiz. v shkole 13 no.5:58-60 S-0 '53.
(MLRA 6:8)
(Optical instruments)

1.4000

25907

S/123/61/000/013/010/025
A052/A101AUTHOR: Yakovenko, G. A.

TITLE: Planing steel with carbide tipped cutters

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1961, 64-65,
abstract 13B428 ("Tr. Zaporozhsk. mashinostroit. in-ta", 1959, no. 3,
117-122)

TEXT: It is pointed out that the impact load, specific for the cutting process of planing, has a negative effect on the strength and life time of the cutters. A study of the effect of the form of shafts and the cutting part geometry of carbide tipped cutters on their life has established that cutters with a straight shaft compared to those with a bent one have a longer life and a sufficient break off resistance. The dependence of the tool life on the value of the rake angle γ of PT5K10 (RT5K10) carbide tipped cutters when planing 45 steel and 1X18H9T (1Kh18N9T) heat-resisting steel is given. It is pointed out that for planing 45 steel negative values of γ within 5-10° should be used, and for heat-resisting steel positive values within the same limits. The main angle φ in the plane within 20-30° and the cutting edge rake of cutters within

X

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25907

S/123/61/000/013/010/025

A052/A101

Planing steel with carbide tipped cutters

15 - 20° are recommended. There are 5 figures and 5 references.

Bernshteyn

[Abstracter's note: Complete translation]

Card 2/2

YAKOVENKO, Grigoriy Aleksandrovich; GOLUBOV, Nikolay Polikarpovich;
DUMANSKAYA, Valentina Avksent'yevna; AFANAS'YEV, V.F., kand.
tekhn.nauk.retsenzent; NIKIFOROVA, R.A., inzh., red.
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Rapid machining of stainless steel] Skorostnaia obrabotka nerzha-
velushchikh stalei. Moskva, Mashgiz, 1963. 72 p. (MIRA 16:6)
(Steel, Stainless) (Metal cutting)

KARTAVOV, Sergey Alekseyevich, prof.; LEVCHENKO, Andrey Matveyevich, kand. tekhn. nauk; RUDNIK, Sergey Sergeyevich, doktor tekhn. nauk; BOVSUNOVSKIY, Yakov Ivanovich, kand. tekhn. nauk; BAZHENOV, Ivan Ivanovich, kand. tekhn. nauk; KOVALENKO, Vladimir Vladimirovich, kand. tekhn. nauk; LOMACHENKO, Zinaida Nikolayevna, kand. tekhn. nauk; MIL'SHTEYN, Mark Zel'manovich, kand. tekhn. nauk; RADCHENKO, Yuliya Gavrilovna, kand. tekhn. nauk; REZNICHENKO, Mikhail Petrovich, kand. tekhn. nauk; TRUBENOK, Aleksandr Davidovich, kand. tekhn. nauk; KHRISTICH, Zakhar Dem'yanovich, kand. tekhn. nauk; SHNAYDERMAN, Isay Yakovlevich, kand. tekhn. nauk; GOLUBOV, N.P., kand. tekhn. nauk. retsenzent; DUMANSKAYA, V.A., kand. tekhn. nauk, retsenzent; MAKSIMOV, G.D., kand. tekhn. nauk, retsenzent; YAKOVENKO, G.A., kand. tekhn. nauk, retsenzent

[Technology of the manufacture of machinery] Tekhnologiya mashinostroeniia. [By] S.A.Kartavov i dr. Kiev, Tekhnika, 1965. 526 p. (MIRA 18:7)

1. Kafedra tekhnologii mashinostroyeniya Kiyevskogo politekhnicheskogo instituta (for all except Golubov, Maksimov, Yakovenko).

DUMANSKAYA, V.A., kand.tekhn.nauk; YAKOVENKO, G.A., inzh.; SHLYAKHTIN, V.V., inzh.

Efficient design and operation of cutters for the GF-691 Sl and
GF-691 milling machines. Mashinostroenie no.4:48-49 Jl-Ag '65.
(MIRA 18:8)

5 (2)

AUTHORS: Zhdanov, A. K., Khadeyev, V. A., SOV/75-14-3-23/29
Yakovenko, G. D.

TITLE: Ammetric Determination of Cobalt by Means of an Iodometric Method on a Rotating Platinum Micro Electrode
(Amperometricheskoye opredeleniye kobal'ta yodometricheskim metodom s vrashchayushchimya platinovym mikroelektrodom)

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3,
pp 367-369 (USSR)

ABSTRACT: Recently (Ref 1) an iodometric method for the determination of cobalt in ammoniacal medium was suggested where no partial oxidation of cobalt by atmospheric oxygen takes place. This suggestion was further developed by the authors on the basis of a device previously described with rotating micro electrode (Ref 2) in which connection the endpoint of the titration is determined ammetrically. Since the reaction proceeds too slowly when the excess iodine is missing, iodine is added in excess and titrated back with sodium arsenite. Table 1 shows the average values of an analysis series, table 2 the small influence exercised by foreign anions and cations. There are 2 tables and 2 references, 1 of which is Soviet.

Card 1/2

Ammetric Determination of Cobalt by Means of an SOV/75-14-3-23/29
Iodometric Method on a Rotating Platinum Micro Electrode

ASSOCIATION: Sredneaziatskiy gosudarstvennyy universitet im. V. I. Lenina,
Tashkent (Central Asia State University imeni V. I. Lenin,
Tashkent)

SUBMITTED: March 18, 1958

Card 2/2

YAKOVENKO, G.D., inzh.

Six shifts a day in drifting. Shakht. stroi. 5 no.8:19-20
Ag '61. (MIRA 16:7)

1. Normativno-issledovatel'skaya stantsiya No.15 kombinata
shakhtostroitel'nykh trestov Stalinskoy oblasti.
(Mine management)

YAKOVENKO, G.D.

Experience with the highly efficient UKR-1 cutter-loader
on a steep seam. Ugol' 38 no.12:1-3 '63. (MIRA 17:5)

1. Donetskij sovet narodnogo khozyaystva.

MEL'NIKOV, K.A. (Donetsk); YAKOVENKO, G.D. (Donetsk); UTKIN, I.S.

Making 1,421 m. of mine workings in one month with the use of
the PK-3m cutter-loader. Ugol' 40 no.12:11-14 D '65.
(MIRA 18:12)

1. Shakhta No.40 "Kurakhovka" tresta Selidovugol'.

VASHCHENKO, K.I.; AVRINSKIY, P.V.; FIRSTOV, A.N.; NESELOVSKIY, V.L.;
Prinimali uchastiye: VARENIK, P. A.; YAKOVENKO, G.F.; SHEVCHUK, R.S.;
NOSOVA, Ye. M.; KUGEL', A.V.; SHTYKA, G.N.; MONDZELEVSKIY, S.P.

Vats for the fusion of caustic soda. Lit. profizv. m.6:4-6 Je '61.
(MIRA 14:6)

(Iron founding)
(Chemical engineering—Equipment and supplies)

Yakovenko, G. F.

Defects of silicon alloys castings. V. K. Fedorov and
G. F. Yakovenko. Material: "Khim. Mekhanostroeni"
14-46-031 (1980). Measures for overcoming low heat cond.
and high shrinkage of 16% Si alloys in casting are described

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2f

YAKOVENKO, G.I.

Invasion of the eustachian tube by ascarids. Vest.oto-rin. 18 no.5:
107-108 S-O '56. (MIRA-9:11)

1. Iz polikliniki no. 25 ob'yedineniya bol'nitsy imeni Uritskogo,
Leningrad.

(ASCARIDS AND ASCARIASIS) (EUSTACHIAN TUBE--DISEASES)

KRYZHANOVSKAYA, V.V., kand.med.nauk; YAKOVENKO, G.I., kand.med.nauk;
RYZHENKO, G.M.

Physiological and hygienic benefit of morning walks for children.
Vrach. delo no.6:121-123 Je '61. (MIRA 15:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy
gigiyeny. (CHILDREN-CARE AND HYGIENE) (WALKING)

KRIZHANOVSKAYA, V.V. [Kryzhanivs'ka, V.V.], kand.med.nauk; VAYNRUB, E.M. [Vainrub, I.E.M.], kand.med.nauk; YAKOVENKO, G.I. [Akovenko, H.I.] kand.med.nauk; PRITALYUK, M.S. [Prytaliuk, M.S.], nauchnyy sotrudnik

Daily schedule and work capacity of fifth-grade pupils in connection with the introduction of polytechnical training. Ped. akush. i gin. 23 no.1:7-10 '61. (MIRA 14:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny (direktor - doktor med. nauk, prof. D.M. Kalyuzhniy).
(MANUAL TRAINING--HYGIENIC ASPECTS)
(WORK)

YAKOVENKO, G.I. [IAkovenko, H.I.], kand.med.nauk; VAYNRUB, E.M. [Vainrub, I.E.M.], kand.med.nauk; PRITALYUK, M.S. [Prytaliuk, M.S.], nauchnyy sotrudnik

Materials on the health characteristics of rural schoolchildren in the central Ukraine. Ped., akush. i gin. 22 no.6:31-34 '60.
(MIRA 14:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny (direktor - doktor med.nauk, prof. D.M.Kalyuzhniy [Kaliuzhnyi, D.M.]).
(UKRAINE--CHILDREN--CARE AND HYGIENE)

USSR / Plant Physiology. Mineral Nutrition.

I

Abs Jour : Ref Zhur Biol., No 8, 1958, No 34272

Authors : Ostrovskaya, L. K.; Yakovenko, G. M.

Inst : AS Latv SSR, Institute of Plant Physiology and Agrochemistry

Title : Inflow of Copper into Plants on Fert Soil and Its Physiological Role

Orig Pub : V sb.: Mikroelementy v s. kh. i meditsine, Riga, AN LatvSSR, 1958, 201 212

Abstract : In field and vegetation experiments on acid (pH 5,0) and alkaline (pH 7,5 - 7,9) peats of Rovno, Sumy and Kiev oblasts, it has been established that copper fertilizers considerably increase the yield of oats (by 50 - 79% and more) and potatoes (up to 69%). The inflow of Cu into plants from the peat decreases, when the calciferous content in it increases. An approximate gross content of Cu in acid (less than $3 \cdot 10^{-4}\%$) and in alkaline (less than $6 \cdot 7 \cdot 10^{-4}\%$) peats

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was established in connection with the optimum effectiveness of copper fertilization. A detailed examination of changes in Cu content in different parts of the plant was carried out showing that its accumulation depends on the

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910003-1" Content of insoluble fraction of Cu, as compared with its overall quantity, amounted to 40-98% in oats and to 20 - 95% in sugar beets; it increased with insufficient intake of Cu by plants, particularly in young leaves. The change of polyphenoloxidase activity in the leaves is connected with the change in them of the Cu content. Specificity of Cu decreases the assimilation intensity in oats by 47%. The study was carried out by the Institute of Plant Physiology and Agrochemistry of the Academy of Sciences USSR. -- A. F. Shcherbakov.

Card 2/3

YAKOVENKO, G.M.

Organization of the registration and prevention of industrial accidents at
the Minsk Tractor Plant. Gig. 1 san. 23 no. 12:44-48 D '58. (MIRA 12:1)

1. Iz khirurgicheskogo otdeleniya mediko-sanitarnoy chasti Minskogo
traktornogo zavoda i kafedry ortopedii i travmatologii Belorusskogo
instituta usovershenstvovaniya vrachey.

(INDUSTRIAL HYGIENE
in tractor stations in Russia (Rus))

YAKOVENKO, G.M.

Industrial mechanization and automation and injuries in the
Minsk Tractor Plant. Ortop., travm. i protez. 22 no. 2:44-46
(MIRA 14:3)
F '61.

(INDUSTRIAL ACCIDENTS)

YAKOVENKO, G.P.; GORDIYENKO, M.V.

"Faneroplenka," a new covering material. Der. prom. 12 no.3:
20-21 Mr '63. (MIRA 16:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut mskhanicheskoy
obrabotki drevesiny. (Furniture industry)

YAKOVENKO, G.Z.

First All-Union Conference of Institutions of Higher Learning
on the Chemistry of Furan Compounds. Gidroliz.i lesokhim.prom.
13 no.1:30 '60. (MIRA 13:5)
(Furan--Congresses)

YAKOVENKO, G.Z.

All-Union Conference on the Production and Use of FurFural. Gidroliz
i lesokhim.prom. 13 no.2:30-31 '60. (MIRA 13:6)

1. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-
spiritovoy promyshlennosti.
(Furaldehyde--Congresses)

YAKOVENKO, G.Z.; LEVCHENKO, D.I.; LEYKIN, Ye.R.

Production and testing of non-ionic KS-59 demulsifiers. Gidrocliz.
i lesokhim.prom. 15 no.2:17-19 '62. (MIRA 18:3)

YAKOVENKO, G.Z.; AFANAS'YEVA, G.A.

Rapid method for determining moisture in lignin and collectivity.
Gidroliz. i lesokhim. prom. 18 no.3:12-13 '65. (MIRA 18:5)

1. VNII sintezbelok.

KAYDASH, A.N.; YAKOVENKO, I.I.

Unusual method of removing foreign bodies from the esophagus.
Zhur. ush. nos. i gorl. bol. 23 no.2:84 Mr-Ap'63. (MIRA 16:8)

1. Iz khirurgicheskogo otdeleniya (zav. - kand. med. nauk P.I.
Yurzhenko) Khersonskoy oblastnoy bol'nitsy.
(ESOPHAGUS—FOREIGN BODIES)

YAKOVENKO, I.I.; KOSTYSHIN, A.T.

Report on the activities of the Kherson Provincial Scientific Society of Otorhinolaryngologists for 1962. Zhur. ush., nos. i gorl. bol. 23 no. 5:93-94 S-0'63 (MIRA 17:3)

1. Predsedatel' Khersonskogo oblastnogo nauchnogo obshchestva otolaringologov (for Yakovenko). 2. Sekretar' Khersonskogo oblastnogo nauchnogo obshchestva otolaringologov (for Kostyshin).

AVKSENT'YEV, G.A., inzh.; OMISHCHENKO, G.A., inzh.; YAKOVENKO, I.N.,
MIROSHNICHENKO, V.V.

Collective responsibility for the enforcement of safety rules.
Bezop. truda v prom. 2 no. 6:27-29 Je '58. (MIRA 11:?)

1. Predsedatel' shakhtkoma shakhty No. 32(for Miroshnichenko). 2. Predsedatel'
komissii okhrany truda(for Miroshnichenko).
(Donets Basin--Coal mines and mining--Safety measures)

YAKOVENKO, I.N., inzh.

Making 805 linear meters of a two-way haulage drift in one
month. Ugol' 40 no.8;34-36 Ag '65. (MIRA 18:8)

BUD'KO, A.V.; BOGDANOV, G.I.; LEVITSKIY, D.Z.; DROBCT, A.S.; YAKOVENKO, K.F.;
MARCHENKO, A.A.; MATVEYEV, I.K.; LEONOV, B.A.; BABENKO, V.T.

Pillar recovery in the Krivoy Rog Basin. Gor. zhur. no.5:22-24
(MIRA 18:5)
My '65.

1. Institut gornogo dela im. A.A.Skochinskogo, Moskva (for Bud'ko,
Bogdanov). 2. Trest Leninruda (for Levitskiy). 3. Rudnik imeni
R. Lyuksemburg (for all except Bud'ko, Bogdanov, Levitskiy).

BARANOV, K.; LITOVCHENKO, Z.; YAKOVENKO, L.

Oligocene barite and quartz concretions of the Nikopol' region.
Uch. zap. IAGU no.9:83-86 '61. (MIRA 15:7)
(Nikopol' region (Dnepropetrovsk Province)--Barite)
(Nikopol' region (Dnepropetrovsk Province)--Quartz)
(Concretions)

TOKHTUYEV, G.V., kand.geologo-mineralogicheskikh nauk; YAKOVENKO, L.F.,
inzhener-geolog

Postore tectonic displacements at the Krivoy Mine in the Krivoy Rog
Basin. Sbor. nauch. trud. NIGRI no.2:271-274 '59. (MIRA 14:1)
(Krivoy Rog Basin—Geology, Structural)

PUDOVIK, A.N.; ALADZHEVA, I.M.; YAKOVENKO, L.N.

Synthesis and rearrangements of propargyl phosphites and allenyl phosphonates. Zhur. ob. khim. 35 no.7:1210-1217 J1 '65.
(MIRA 18:8)

1. Kazanskiy gosudarstvennyy universitet.

PUDOVIK, A.N.; ALADZHEVA, I.M.; YAKOVENKO, L.N.

Synthesis and rearrangement of diethylpropargyl phosphite.
Zhur. ob. khim. 33 no.10:3443-3444 O. '63. (MIRA 16:11)

1. Kazanskiy gosudarstvennyy universitet.

KRAINSKAI-IGNATOVA, V.N., professor; YAKOVENKO, L.T.

Combined use of immunohematologic methods in examining isosensitization
and the selection of appropriate methods. Probl. genet. i perel. krovi
(MLRA 10:1)
1 no.6:38-44 N-D '56.

1. Iz Ukrainskogo nauchno-issledovatel'skogo institutaperelivaniya
krovi i neotlozhnoy khirurgii (dir. Yu.M.Orlenko)
(ANTIBODIES, determ.
isoimmuns antibodies, study methods)

CHERNENKO, M.I.; YAKOVENKO, L.T.; RESHETNYAK, K.K.; SWINDIKOVSKIY, V.I.

Antierythrocytic antibodies and their significance in autoaggressive diseases of the blood system and other systems of the body. Gemat, 1 perel. krovi 1:228-230 '65. (MIRA 18:10)

1. Khar'kovskiy institut perelivaniya krovi.

USSR / Farm Animals. General Problems. Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7274

Author : Yakovenko, M.

Inst : Not given

Title : A Cheap Source of Protein Feeds

Orig Pub : Kolkhoznoye proiz-vo, 1958, No 3, 32

Abstract : After a buckwheat crop was harvested for grain and the plot was fertilized at autumn ploughing, one hectare of weakly leached loamy black soil was used for sowing. The protein yield from 80 kg of corn (C) and from 60 kg of soybeans was higher by 148.2 percent, from 80 kg of C and 60 kg of vetchling by 135.7 percent, from 80 kg of C and 100 kg of peas by 135.7 percent, from 20 kg of sudan grass and 100 kg of peas by 150

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USSR / Farm Animals. General Problems

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7274

percent than in unmixed sowing of C (90 kg/hec) and sudan grass (20 kg/hec), each sown separately. It was noted that corn developed normally only then when mixed with soybeans and partially with vetchling. Bean crop had an adverse effect upon the growth of corn and sudan grass. -- A. D. Musin

Card 2/2

11

NEMCHENKO, V.; YAKOVENKO, M.

Ways to increase labor productivity in the coal mining industry
of the U.S.S.R. Biul. nauk. inform.: trud i zar. plata 3 no. 10:14-
18 '60. (MIRA 13:12)

(Coal mines and mining--Labor productivity)

FIN'KO, V.I.[translator]; PETROV, V.P., red.; YAKOVENKO, M., red.;
KHOVIAKOV, A.D., tekhn. red.

[Problems in the mineralogy of clays] Voprosy mineralogii glin;
sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1962. 463 p.
Translated from the English. (MIRA 15:9).
(Clay—Analysis)

YAKOVENKO, M. N., Cand of Med Sci -- (diss) "Prophylaxis and Treatment
Peritonitis With Antibiotics With the Use of Activated Drainage in
Light of the Bacteriological Control," Khar'kov, 1959, 16 pp
(KL, 6-60, 126)

YAKOVENKO, M.N., kand. med. nauk

Treatment of subdiaphragmatic abscesses. Khirurgiia 39
(MIRA 17:9)
no.10:72-76 O '63.

1. Iz kafedry fakul'tetskoy khirurgii (zav.-prof. I.A. Ageyenko)
Kubanskogo meditsinskogo instituta.

YAKOVENKO, M. N., kand. med. nauk

Primary cancer of the common bile duct. Khirurgiia 37 no.7:
137-138 Jl '61. (MIRA 15:4)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. I. A. Ageyenko) Kubanskogo meditsinskogo instituta i khirurgicheskogo otdeleniya (zav. V. B. Brazhnikov) Slavyanskoy rayonnoy bol'nitsy.

(BILE DUCTS--CANCER)

YAKOVENKO, M.N.

Abdominal resection of the rectum retaining the sphincter after
the method of Professor I.A. Ageenko. Vop. onk. 11 no.5:89-92 '65.
(MIRA 12:3)

1. Iz kafedra fakul'tetskoy khirurgii (zav. kafedroy - prof. I.A.
Ageenko) Kubanskogo meditsinskogo instituta (rektor - dozent V.A.
Latyshev).

TOMASHEVSKIY, Dmitriy Filippovich [Tomashevs'kyi, D.P.]; YAKOVENKO, Maksim Stepanovich [Iakovenko, M.S.]; FRANCHUK, V.P., red.

[Ways of increasing feed production] Shliakhy zbil'shennia vyrobnytstva kormiv. Kyiv, 1958. 39 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koї RSR, Ser.3, no.3)

(Feeding and feeding stuffs) (MIRS 12:2)

USSR / Cultivated Plants. Fodder Grasses and Root Crops. M-3

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6295

Author : Yakovenko, M. S.

Inst : Sumy Agricultural Experimental Station

Title : Mixed Sowings of Fodder Crops

Orig Pub : Kolgospnik Ukrainskii, 1958, No 3, 24-25

Abstract : The results of experiments carried out at the Sumy Agricultural-Experimental Station in 1957 on sowings of corn and sudan grass mixed with leguminous crops in order to obtain green fodder are given in this paper. The yield of the green mass was 325 cwt/ha including 5.6 cwt/ha of protein, when corn was sown according to the norm of 90 kg/ha. The yield was 258 and 8.3 cwt/ha, respectively, when 80 kg/ha corn and 60 kg/ha were sown. Data on the yields of green mass and protein, when other mixtures

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USSR / Cultivated Plants. Fodder Grasses and Root Crops. M-3

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6295

were sown, are given. Recommendations concerning the sowing of mixture of crops, in order to obtain fodder with high protein contents, are given.

Card 2/2

DOTSENKO, G.I. [Dotsenko, H.I.]; VOYT, S.K., kand.sel'skokhoz.nauk; OZEROV, V.I., kand.sel'skokhoz.nauk; TIKHONOV, M.I., kand. sel'skokhoz.nauk; VAKAL, L.S., nauchnyy sotrudnik; VISHNEVSKAYA, T.G. [Vishnev's'ka, T.H.], nauchnyy sotrudnik; KRATYUK, V.I., nauchnyy sotrudnik; YAKOVENKO, M.S., nauchnyy sotrudnik; LEVIN, D.A., agronom; GALAT, B.F. [Halat, B.F.], zootehnik; PETROVSKIY, O.M. [Petrovs'kyi, O.M.], red.; LIMANOVA, M.I., tekhn.red.

[Management system on a collective farm; the Dzerzhinskii Artel, Sumy Province] Systema vedeniya hospodarstva u kolhospa; artil' imeni Dzerzhyns'koho Sums'koi oblasti. Kharkiv, Kharkiv's'ke knyzhkove vyd-vo, 1960. 77 p. (MIRA 14:4)

1. Nachal'nik kolkhoza imeni Dzerzhinskogo, Sumskogo rayona. Sumskoy oblasti (for Dotsenko).

(Sumy Province--Farm management)

EKHIN, P.E.; SLUTSKIY, G.V.; KOLMAKOV, S.A.; YAKOVENKO, M.S.;
SHKURKO, S.I.; BUDARINA, V., red.; BESSUDNOVA, N., mlad.
red.; ULANOVA, L., tekhn. red.

[Movement for communist labor in U.S.S.R. industry] Dvizhenie
za kommunisticheskii trud v promyshlennosti SSSR. Moskva,
Sotsekgiz, 1962. 146 p. (MIRAI5:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po vopro-
sam truda i zarabotnoy platy.
(Socialist competition)

YAKOVENKO, M. V.

Industrial Hygiene

Improvement of working conditions in hot zinc plating of iron. Gig. i san. no. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, December 19⁵⁷, Uncl.²

YAKOVENKO, M.V.

Sources of contamination of the air by mercury vapors in buildings containing rectifiers of electric traction substations. Gig.i san. no.6: 49-51 Je '53. (MLRA 6:6)

1. Laboratoriya Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stan-tsii. (Mercury--Toxicology) (Electric substations)

Okhrana Zdorov'ya Rabotayushchikh so R tut'yu (Safeguarding the Health of Employees Working With Mercury), by M. V. Yakovenko, Moscow, 56, 24 pp (from Sovetskoye Meditsinskoye Referativnoye Obozreniye, Zdravookhraneniye, Gigiyena i Sanitariya, Istoryya Meditsiny, Moscow, No 20, 1956, abstract by O. Mogilevskaya, pp 74-75)

"The pamphlet deals with the problem of the physicochemical properties of mercury, the use of mercury in industry, and its effect on the workers. It provides directions for the construction and equipping of premises in which work with mercury is to be done, and for methods of removing mercury from the premises. Regulations which promote the prevention of mercury intoxication are cited. Instructions for the preparation of reagents, and solutions which temporarily neutralize mercury are given. Methods of washing clothes worn during work with the metal are suggested. The pamphlet is intended for workers in the field of technological safety, and for industrial sanitation physicians."

AUTHOR: Yakovenko, M.Ya. 26-58-2-30/48

TITLE: Smail Rorquals Among the Ice (Malyye polosatiki sredi l'dov)

PERIODICAL: Priroda, 1958, ⁴⁷ Nr 2, p 107 (USSR)

ABSTRACT: The author sketches the seasonal movements of the rorquals (Balaenoptera acutorostrata) among the ice floe in the Norwegian, Barents and Greenland Seas and mentions three cases of their sighting.

ASSOCIATION: Polyarnyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii imeni N.M. Knipovicha, Murmansk (Polar Scientific Research Institute for Sea Fishing and Oceanography imeni N.M. Knipovich, Murmansk)

Card 1/1 1. Whales--Migration 2. Animals--Greenland 3. Animals--Norway

YAKOVENKO, M.Ya.

Age determination in the hard seal of the White Sea and the
establishment of fishery norms for it. Trudy sov. Ikht. kom.
no.12:192-198 '61. (MIRA 14:6)

1. Polyarnyy nauchno-issledovatel'skiy institut morskogo
rybnogo khozyaystva i okeanografii.
(White Se:--Seals(Animals))

BARTH, T.F.W.; LEONT'YEVA, A.A. [translator]; SOBOLEV, V.S., redaktor;
YAKOVLENKO, M.Ye., redaktor; SHAPOVALOV, V.I., tekhnicheskiy
redaktor

[Theoretical petrology. Translated from the English] Teoreticheskaya
petrologiya. Perevod s angliiskogo A.A.Leont'evoi. Pod red. i s
predisl. V.S.Soboleva. Moskva, Izd-vo inostrannoii lit-ry, 1956.
414 p. (MIRA 10:1)

(Petrology)

YAKOVENKO, M.Ye.

GRIM, Ralph E.; ZVYAGIN, B.B. [translator]; MIKHEYEV, I.V. [translator];
MIKHEYEV, V.I. [translator]; RAZHEGAYEVA, G.I. [translator];
FRANK-KAMENETSKAYA, T.A. [translator]; FRANK-KAMENETSkiy, V.A.,
redaktor; YAKOVENKO, M.Ye., redaktor; DUMRRE, I.Ya., tekhnicheskiy
redaktor

[Clay mineralogy. Translated from the English] Mineralogiia glin.
Perevod angliiskogo B.B.Zviagina i dr. Pod red. i s predisl. V.A.
Frank-Kamenetskogo. Moskva, Izd-vo inostrannoi lit-ry, 1956.
454 p. (MLRA 9:10)

(Clay)

YAKOVENKO, M.Ye.

SMITH, F.G.; CHERNOV, A.A. [translator]; LEMMLEYN, G.G., redaktor;
YAKOVENKO, M.Ye., redaktor; SHAPOVALOV, V.I., tekhnicheskiy redaktor

[Historical development of inclusion thermometry. Translated from
the English] Geologicheskaya termometriya po vklucheniiam v
mineralakh. Perevod s angliiskogo A.A.Chernova. Pod red. i s dop.
G.G.Lemmaleina. Moskva, Izd-vo inostrannoj lit-ry, 1956. 167 p.
(MLRA 10:1)

(Thermometers and thermometry)

TITOVA, N.A. [translator]; SHNEYERSON, S.B. [translator]; YAKOVENKO,
M.Ye., red.; SMIENOVA, N.I., tekhn.red.

[Pegmatites of Central Africa; a collection of articles]
Pegmatity Tsentral'noi Afriki; sbornik statei. Predisl. A.I.
Ginzburga. Moskva, Izd-vo inostr.lit-ry, 1958. 285 p.
[Translated from the French] (MIRA 12:5)
(Africa, Central--Pegmatites)

RUBINSSTEYN, G.A. [translator]; VAKHRAZEEV, V.A., red.; YAKOVENKO, M.Ye.,
red.; ARTEMIOVA, Ye., tekhn.red.

[Stratigraphic guidebook: Japan] Stratigraficheskii spravochnik:
Iaponii. Moskva, Izd-vo inostr.lit-ry, 1959. 206 p. Translated
from the English. (MIRA 13:9)

1. International Geological Congress, 22nd.
(Japan--Geology, Stratigraphic)

VYAYURYUNEN, Kh. [Väyrynen, Heikki]; GROMOVA, Z.T. [translator];
NOKELAYNEN, S.I. [translator]; KHARITONOV, L.Ya., red.;
YAKOVENKO, M.Ye., red.; BELEVA, M.A., tekhn.red.

[Crystalline foundation of Finland] Kristallicheskii fundament
Finliandii. Pod red. i s predisl. L.IA.Kharitonova. Moskva,
Izd-vo inostr.lit-ry, 1959. 295 p. (MIRA 13:3)
(Finland--Rocks, Crystalline and metamorphic)

VEYTSMAN, P.S. [translator]; VILLER, K.E. [translator]; KROPOTKIN,
P.N., red.; SAVARENISKIY, Ye.F., red.; YAKOVENKO, M.Ye., red.;
GRIBOVA, M.P., tekhn.red.

[Crustal structure, based on seismic data; collected 'studies]
Stroenie zemnoi kory po seismicheskim dannym; sbornik statei.
Moskva, Izd-vo inostr.lit-ry, 1959. 362 p. Translated from
the English. (MIRA 13:6)

(Geology) (Seismic prospecting)

LUCHITSKAYA, A.I. [translator]; TITOVA, N.A. [translator]; LAKOVENKO,
M.Ye., red.; KHAR'KOVSKAYA, L.M., tekhn.red.

[Stratigraphic handbook: Vietnam, Laos, Cambodia, Thailand,
Malaya] Stratigraficheskii spravochnik: V'etnam, Laos,
Kambodzha, Tailand, Malaia. Moskva, Izd-vo inostr.lit-ry,
1960. 256 p. Translated from the English and the French.
(MIRA 13:10)

1. International Geological Congress. 20th, Mexico.
(Asia, Southeastern--Geology, Stratigraphic)

LUCHITSKAYA, A.I. [translator]; YAKOVENKO, M.Ye., red.; KHAR'KOVSKAYA,
L.M., tekhn.red.

[Handbook of the stratigraphy of India, Pakistan, Nepal, Bhutan,
Burma, and Ceylon] Stratigraficheskii spravochnik: Indiya,
Pakistan, Nepal, Butan, Birma, TSeilon. Moskva, Izd-vo inostr.
lit-ry, 1960. 491 p. (MIRA 13:11)

1. International Geological Congress. 20th, Mexico, 1956.
(Asia--Geology, Stratigraphic)

DEM'YANENKO, A.I.; YAKOVENKO, N.G.; CHALOV, I.V.

Increasing alumina output at the Dnieper aluminum plant during
work with a high concentration aluminate solution. TSvet. mat.
38 no.8:86-87 Ag '65. (MIRA 18:9)

BANNOV, Semen Yegorovich; FIBIKH, V.V., red.; YAKOVENKO, N.N., red.;
DOBUZHINSKAYA, L.V., tekhn. red.

[Repair of the electric equipment of metallurgical plants]
Remont elektrooborudovaniia metallurgicheskikh zavodov. Izd.2.,
perer. i dop. Moskva, Metallurgizdat, 1963. 527 p.
(MIRA 16:4)

(Metallurgical plants--Electric equipment)
(Electric machinery--Maintenance and repair)

DRABAN, A.Z., inzhener; RUDENKO, P.M., inzhener; YAKOVENKO, O.I., inzhener.

"Keramzit" (porous clay filler) made of local raw materials of
the Ukrainian S.S.R. Nov. v stroi. tekhn. no.6:45-88 '55.
(MLRA 9:11)

1. Nauchno-issledovatel'skiy institut stroitel'nykh materialov
Akademii arkhitektury USSR.
(Ukraine--Clay)

S/081/60/000/014/006/009
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 14, p. 352, # 57850

AUTHORS: Yakovenko, O.I., Trotsko, T.T.

TITLE: On the Effect of the Shape and Dimensions on the Strength of Ceramic Products

PERIODICAL: V sb.: Novoye v proiz-ve stroit. materialov, No. I, Kiyev, Gosstroyizdat UkrSSR, 1959, pp. 145-169

TEXT: Results of investigations are given which were carried out to determine the effect of the shape and dimensions of ceramic specimens on their strength during compression. It was established that ceramic articles possessed anisotropic properties. The strength of the ceramic specimens was by 8 - 10% higher when the direction of the destructive force was perpendicular to the force condensing the mass in the press. The strength of specimens decreased with their greater absolute dimensions. The strength of massive specimens was higher than that of hollow specimens of equal volume. The correlation between the shape and strength of the material was established by introducing the notion ✓

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S/081/60/000/014/006/009
A006/A001

On the Effect of the Shape and Dimensions on the Strength of Ceramic Products

of the coefficient of shape (the ratio of the cross-sectional surface to the sum of lateral faces of the work). The coefficient of shape is the higher the lower the height of the specimen. In compression, the strength increases with a higher coefficient of shape.

From the author's summary

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

YAKOVENKO, O.I., inzh.

Determining the quality of semidry pressed ceramics according
to the modulus of elasticity. Nov. v proizv. stroi. mat. no.1:
185-194 '59. (MIRA 12:12)

(Ceramics)

LITVINENKO, Yevgeniy Ievstaf'yevich [Lytvynenko, I.E.I.E.]; YAKOVENKO, O.Y.
[Iakovenko, O.I.], nauchnyy red.; POLTORATSKAYA, Ye. [Poltorats'ka, Ye.],
red.; BEREZOVSKIY, N. [Berezovs'kyi, N.], tekhn.red.

[Production of local building materials for rural construction]
Vyrobnystvo mistshevych budivel'nykh materialiv dla sil'skoho
budivnytstva. Vyd.3., dop. i perer. Kyiv, Derzh.vyd-vo lit-ry
z budivnytstva i arkhit.URSR, 1960. 386 p. (MIRA 13:10)
(Ukraine--Building materials)

YAKOVENKO, P.F.

Carbon tetrachloride treatment of sheep fascioliasis. Veterinaria
36 no.9:33 8 .!59.
(MIRA 12:12)

1.Zaveduyushchiy Vaganichskim veterinarnym uchastkom, Dobryanskogo
rayona, Chernigovskoy oblasti.
(Parasites--Sheep) (Carbon tetrachloride)

YAKOVENKO, P.K. zootehnik.

Germinating grain on livestock farms. Nauka i poved. op. v sel'khoz.
18 no.2:14-15 F '58. (MIRA 11:3)
(Grain) (Feeding and feeding stuffs)

YAKOVENKO, P.K.

TERENT'YEVA, N.Z., kand. sel'skokhozyaistvennykh nauk; YAKOVENKO, P.K.,
zootekhnik.

"Results of stockbreeding research." Reviewed by N.A. Terent'yeva
and P.K. Yakovenko. Zhivotnovodstvo 20 no.3:86-87 Mr '58.
(Stock and stockbreeding) (MIRA 11:2)

YAKOVENKO, P.K.

Raising young dairy cattle for beef production in New Zealand,
Zhivotnovodstvo 21 no.5:89-90 My '59. (MIRA 12:7)
(New Zealand--Beef cattle)

ABDULAKH, M.N.; YAKOVENKO, P.M.

Corrosion of economizer tubes. Sakh.prom. 3V no.6:42-43 Je
'63. (MIRA 16:5)

1. Shamrayevskiy sakharnyy zavod.
(Feed water heaters)
(Boilers, Watertube--Corrosion)

YAKOVENKO, P.V., dorozhnyy master

Save metals. Put' i put.khoz. 8 no.3:44 '64.

(MIRA 17:3)

1. Stantsiya Priluki, Yuzhnay dorogi.

YAKOVENKO, R. F.: Master Tech Sci (diss) -- "Investigation of the physicochemical properties of melted magnesium slag and the development of the optimal conditions for using magnesium in the production of blast-furnace ferromanganese". Moscow, 1959. 16 pp (Main Admin of Sci Res and Design Organizations of the Gosplan USSR, Central Sci Res Inst of Ferrous Metallurgy), 110 copies (KL, No 16, 1959, 109)

YAKOVENKO, Rada Feodos'yavna; DEMIDYUK, V.F. [Demydiuk, V.F.], red.;
MEYEROVICH, S.M. [Meierovich, S. M.], ~~tekhn.~~ red.

[Agriculture on the path to communism] Sil's'ke hospodarstvo
na shliakhu do kommunizmu. Kyiv, Derzhpolitydav, URSR, 1962.
48 p. (MIRA 16:3)

(Agriculture)

MUSTAYEV, A.K.; YAKOVENKO, R.T.

Precipitation method of obtaining antimony. Izv.AN Kir.SSR.Ser.
est.i tekhnauk 2 no.3:55-66 '60. (MIRA 13:9)
(Antimony)

NAZAROVA, N.I.; LUYK, A.A.; YAKOVENKO, R.T.; LEBEDEVA, V.M.

Chemical and technological study of the coals of the Karakichi deposit. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 2 no.5:21-25 '60. (MIRA 13:9)

(Karakichi--Coal)

MUSTAYEV, A.K.; YAKOVENKO, R.T.

Equilibria in the system calcium sulfamate - sulfamic acid -
water at 25°. Izv.AN Kir.SSR.Ser.est.i tekhn.nauk 4 no.9:53-55
(MIRA 16:4)

'62.

(Sulfamates) (Sulfamic acid)
(Phase rule and equilibrium)

MUSTAYEV, A.K.; YAKOVENKO, R.T.

Equilibria in the system sulfamic acid - lanthanum sulfamate -
water at 25°. Izv.AN Kir.SSR.Ser.est.i tekhn.nauk 4 no.9:57-59
(MIRA 16:4)

'62.

(Sulfamic acid) (Lanthanum salts)
(Phase rule and equilibrium)

L 43123-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG
ACCESSION NR: AR5008431 S/0081/65/000/003/V125/V125

17

B

SOURCE: Ref. zh. Khimiya, Abs. 3V26

AUTHOR: Mustayev, A. K.; Yakovenko, R. T.

TITLE: The chemistry of polyphosphates of the rare earth elements 27

CITED SOURCE: Izv. AN KirgSSR. Ser. yestestv. i tekhn. n., v. 5, no. 4, 1963,
13-16

TOPIC TAGS: rare earth element, alkali metal pyrophosphate, chemical interaction
analysis, precipitation, rare earth polyphosphate

TRANSLATION: The study concerned the interaction of rare earth elements and the
associated Al, Fe, Sc, Zn, Pb, Ti, Zr, Th, etc., with the pyrophosphates of
alkali metals. It was found that the pyrophosphates of rare earth elements inter-
act at low temperatures with $\text{Na}_4\text{P}_2\text{O}_7$, forming unstable solutions from which a
sediment precipitates within 6 to 7 hours (within several minutes when heated).
Rare earth elements of the Y-group precipitate quantitatively in such cases, those
of the Ce group incompletely, while the pyrophosphates of associated metals remain
in solution. Stable and soluble compounds are formed by the pyrophosphates of

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